



Kreon Technology (Pty) Ltd

Established in 1993, Kreon Technology has become a leading developer of state-of-the-art electronic sub-systems that focuses on the defence and high-end industrial sectors. Complete solutions are provided, including system engineering, algorithm development, electronic hardware development, embedded software development, and application software development. Well established links with various role players in the industry put Kreon Technology in a position to provide a one-stop service to clients for the supply of electronic sub-systems, including volume manufacturing.

Today, Kreon Technology is ideally positioned to provide design and development services to companies outsourcing product development. The organisation's objective has always been to achieve the highest standards of quality in engineering services and to provide expertise with a professional, pro-active and motivated team of people. Transparent communication with clients is maintained throughout the product development life cycle.

Market

Kreon Technology has well established relationships with some of the major defence companies in South Africa. Through these relationships Kreon Technology has gained considerable experience in the development of electronic sub-systems for the defence industry.

In the industrial sector, Kreon Technology has performed development work for a large mining group on their automated processes. For another client communications technologies, including GSM/GPRS and Zigbee, have been successfully implemented in a large asset tracking system.

Services

Kreon Technology's system engineering process uses MIL-STD-490A as guideline, which is tailored to meet the client's specific requirements.

Engineering management is executed using a set of tools to plan and monitor the cost and schedule of projects.

The company's Software Development Standard is based on guidelines contained in MIL-STD-498 and RTCA/DO-178B. Software engineers work in close collaboration with the system engineer and hardware engineers throughout the concept design and detail design phases of projects. Software performance areas are identified early in the project and appropriate techniques are applied to the software design and coding phases. The focus is on the development of embedded software for Digital Signal Processing (DSP), process control, flight control, communications, data management and data distribution. In addition, software development is done for platform based applications such as weapons management systems, data display systems, simulators and automated test equipment.

The company's Hardware Development Standard is based on guidelines contained in RTCA/DO-254. A design-to-cost methodology is used throughout the specification and design phases to achieve the most cost effective solution that meets the required system performance. The focus is on high-speed, real-time efficient platforms for

embedded applications, as well as on custom cards for Commercial-Off-The-Shelf (COTS) platforms such as Compact-PCI or VME.

An integral part of the company's services is the ability to test and qualify electronic sub-systems. Custom designed automated test equipment is part of any manufacturing strategy to provide products that conform to system requirements, which in turn provide turn-key solutions to clients.

Business Processes

Kreon Technology prides itself on its comprehensive, yet compact and cost efficient processes that have been established, and are to the benefit of all projects and clients. These processes are contained in the company's Quality Management System (QMS), and include Configuration Management, Change Control, Maintenance Control, the various Technical Development processes, and other company administrative processes.

Kreon Technology is an ISO 9001-2000 certified company.

Products

Apart from products and sub-systems developed under out-sourced contracts, Kreon Technology also has in-house developed products:

1. A number of different high-end CPU cards have been developed for customers. These cards implement processors such as the DSPs from Texas Instruments, or the PowerPCs from Motorola and AMCC. An in-house developed hard real-time kernel is available for these cards. This kernel uses a layered structure, and has proven itself in various applications.
2. Kreon Technology has been at the forefront of data logger technology for a number of years. Using Flash Disk technology, it has been possible to achieve very high density data storage at a substantial bandwidth
3. Software products such as a TCP/IP Win-Socket server are also available. This server has been used in applications such as tracking systems, SMS based remote monitoring, telemetry display systems and remote control systems.
4. A range of PCI and Compact PCI cards is available. These cards implement solutions for DSP, Arcnet communication, HDLC communication and general purpose I/O control.

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